MAX AIR

The Max-AI® AIR is an innovative sorting solution that combines cutting-edge artificial intelligence with the precision ejection and capacity of an optical sorter. Designed to enhance material recovery in waste and recycling operations, the AIR system delivers superior sorting accuracy, increased capacity, and reduced operational costs.

Using Max-AI®'s advanced vision and deep-learning capabilities, the system continuously analyzes material streams in real time, making intelligent sorting decisions to efficiently separate recyclables. Its high-speed ejection system ensures precise material diversion and provides an ideal solution exceeding manual and robotic sorting capacities, optimizing throughput while maximizing purity.

Seamlessly integrates into Material Recovery Facilities

Flexibility of AI detection with throughput of air ejection

Up to 2000+ ejections/min

Compact unit with minimal footprint:

- Simple installation and easily retrofitted
- 76.2cm and 152.4cm standard dimensions

Scalable, efficient, and cost-effective solution

Maximizes automation, improves sustainability, and reduces reliance on manual sorting

Max-AI® AIR

Technology	Advanced vision and deep-learning AI detection with up to 95% identification efficiency
	Customizable thresholds and confidence levels for precise sorting control
	Quick and easy target material adjustments to adapt to changing recovery needs
	High-speed ejection system for fast and accurate material separation
Applications	Commodity Quality Control (QC) for improved material purity
	Last-chance recovery of recyclables from the residue stream
	Separation of non-ferrous metals & UBCs for optimized sorting efficiency
	Food-grade vs. non-food-grade container separation for enhanced material handling
Key Features	Minimal maintenance comparable to modern optical sorters
	Optimized air flow geometry for improved material trajectory, maximizing purity
	Adjustable splitter for optimal material flow and enhanced sorting precision
	Versatile ejection configurations – Up, Down, and Dual ejection options
	Compatible with most conveyor belt speeds including accelerator belts

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